## CHEMICO-BIOLOGICAL INTERACTIONS

## CONTENTS

## **VOLUME 75 (1990)**

Chemical and physical properties of the major serum albumin adduct of aflatoxin B <sub>1</sub> and their implications for the quantification in biological samples by G. Sabbioni (Würzburg, F.R.G.)	1
Use of differential DNA-repair host mediated assays to investigate the biotransformation of xenobiotics in <i>Drosophila melanogaster</i> . I. Genotoxic effects of nitrosamines	
by S. Knasmuller, A. Szakmary and M. Kehrer (Innsbruck and Seibersdorf, Austria) Effects of the lipophilic anticancer drug teniposide (VM-26) on membrane transport	17
by S.E. Wright, L.H. Hines and J. Courtland White (Winston-Salem, NC)	31
Inhibitory effects of orotate on precursor incorporation into nucleic acids	
by M.A. Lea, A. Luke, A. Assad and S. Ayyala (Newark, NJ)	49
by P. Kovacic, W.D. Edwards, N.R. Natale, R. Sridhar and P.F. Kiser (Milwaukee, WI, Moscow, ID and Columbia, SC)	61
Cigarette smoke-induced DNA-damage: Role of hydroquinone and catechol in the formation of the oxidative DNA-adduct, 8-hydroxydeoxyguanosine	
by P. Leanderson and C. Tagesson (Linköping, Sweden)	71
Hepatic uptake and antihepatotoxic properties of vitamin E and liposomes in the mouse	
by C. Werner and A. Wendel (Konstanz, F.R.G.)	83
Lysis of egg phosphatidylcholine vesicles by tricyclic carboxamide antitumor agents by C.J. O'Connor, D.P. Emery, H. Tank, W.A. Denny and J. Sunamoto (Auckland, New	
Zealand and Kyoto, Japan)	93
Photochemical covalent binding of urocanic acid to polynucleic acids	-
by S.J. Farrow, T. Mohammad, W. Baird and H. Morrison (West Lafayette, IN)	105
Cytotoxicity of S-(1,2,3,4,4-pentachlorobutadienyl)-L-cysteine after apical and basolateral exposure of LLC-PK <sub>1</sub> monolayers. Involvement of an amino acid transport system by J.J.W.M. Mertens, E.A.J. Keukens, M. Appel, B. Spenkelink, J.H.M. Temmink and P.J van Bladeren (Wageningen and Zeist, The Netherlands)	119
Sequence specificity in the reaction of benzopyrene diol epoxide with DNA	113
by M.R. Osborne (London, U.K.)	101
Mechanisms of chromium toxicity in mitochondria	131
by D. Ryberg and J. Alexander (Oslo, Norway)	141
Assessment of S-(-1,2-dichlorovinyl)-L-cysteine induced toxic events in rabbit renal cortical	141
slices. Biochemical and histological evaluation of uptake, covalent binding, and toxicity by G.H.I. Wolfgang, A.J. Gandolfi, R.B. Nagle, K. Brendel and J.L. Stevens (Tucson,	
AZ and Lake Placid, NY)	153
strains: influence of pretreatment with cytochrome P-450 inducers	
by F.A. Sutcliffe, A.D. MacNicoll and G.G. Gibson (Guildford and Surbiton, U.K.)	171
Activation of microsomal glutathione transferase activity by reactive intermediates formed during the metabolism of phenol	171
by H. Wallin and R. Morgenstern (Oslo, Norway and Stockholm, Sweden)	185
N-Acetyl-p-benzoquinone imine-induced changes in the energy metabolism in hepatocytes	
by B.S. Andersson, M. Rundgren, S.D. Nelson and S. Harder (Stockholm, Sweden)	201

Opposite effects of methylene blue and ascorbate on lipid peroxidation in muscles. Correlation with the redox state. I. Experiments on satisfied frogs	
by M. Dely. T. Zsoldos, A. Puppi and A. Tigyi (Pécs, Hungary)	213
Recovery of the pyrrolic nucleus of pyrrolizidine alkaloid metabolites from sulphur conju-	
gates in tissues and body fluids	
by A.R. Mattocks and R. Jukes (Carshalton, U.K.)	225
Review Article	
Glutathione S-transferases in relaxation to their role in the biotransformation of xenobiotics	
by R.M.E. Vos and P.J. van Bladeren (Wageningen and Zeist, The Netherlands)	241
Cytochrome P-455 nm complex formation in the metabolism of phenylalkylamines. XI. Peroxygenase versus monooxygenase function of cytochrome P-450 in rat liver microsomes	
by KH. Jönsson and B. Lindeke (Uppsala and Solna, Sweden)	267
by H. Hemminki, A. Alhonen-Raatesalmi, P. Koivisto and P. Vodicka (Helsinki, Finland)	281
Biologically active aromatic retinoids bearing azido photoaffinity-labeling groups and their binding to cellular retinoic acid-binding protein	
by B.P. Sani, J.J. Wille, Jr., M.I. Dawson, P.D. Hobbs, J. Bupp, S. Rhee, WR. Chao, A.	000
Dorsky and H. Morimoto (Birmingham, AL; Menlo Park and Berkeley, CA) Effect of chrysotile abestos on cytochrome P-450-dependent monooxygenase and	293
glutathione-S-transferase activities in rat lung	100
by Q. Rahman, S.G. Khan and S. Ali (Lucknow, India)	305
The effect of D-penicillamine on metallothionein mRNA levels and copper distribution in mouse hepatocytes	
by H.J. McArdle, P. Kyriakou, A. Grimes, J.F.B. Mercer and D.M. Danks (Dundee,	
U.K. and Melbourne, Australia)	315
Induction of hepatic cytochrome P-450 mediated alkoxyresorufin O-dealkylase activities in different species by prototype P-450 inducers	
by R.A. Lubet, JL. Syi, J.O. Nelson and R.W. Nims (Frederick and College Park, MD)	325
Nickel-selenium interaction-time dependent biochemical alterations and metal decorpora- tion in rats	
by S. Khandelwal, S.J.S. Flora and S.K. Tandon (Lucknow, India)	341
Announcements	349
Subject Index Volume 75 (1990)	351
Author Index Volume 75 (1990)	353
Contents Volume 75 (1990)	357

